SWP Weekly Water Quality Summary

May 11 to 18, 2010

Electrical Conductivity: Concentrations decreased at Harvey O. Banks Pumping Plant (HBP) and Barker Slough, but increased at Check 29, Check 41 and Vallecitos from May 11 to 18, 2010. Concentrations ranged from 305 to 509 µS/cm (183 to 305 mg/L), below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L.) As of May 18, 2010, the lowest concentration of 308 µS/cm (185 mg/L) occurred at HBP, while the highest concentration of 493 µS/cm (296 mg/L) occurred at Check 29. EC concentration at HBP decreased from 310 µS/cm to 308 µS/cm (186 to 185 mg/L), as of May 18, 2010.

Bromide*: Concentrations exceeded the California Bay-Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.10 to 0.24 mg/L. As of May 18, HBP had the lowest concentration of 0.10 mg/L, while the highest concentration of 0.23 mg/L occurred at Check 29. The average daily bromide concentration at HBP was 0.10 mg/L as of May 18, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: This week turbidity levels decreased at HBP, Check 29 and Vallecitos, but increased at Check 41 and Barker Slough. Turbidity levels ranged from 4.3 NTU to 31.9 NTU. As of May 18, 2010, the lowest level of 4.3 NTU occurred at Vallecitos, while the highest level of 31.9 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 11.3 NTU to 6.4 NTU as of May 18, 2010.

Dissolved Organic Carbon (DOC): Concentrations increased slightly from 3.3 mg/L to 3.4 mg/L at Check 13, from 3.0 mg/L to 3.2 mg/L at Edmonston PP, but was unchanged at 2.5 mg/L at HBP as of May 18, 2010.

Taste and Odor Compounds: As of May 11, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect to 1 ng/L at O'Neill Outlet, Pacheco PP and San Luis Structure.

Ground water pump-ins to the California Aqueduct from May 11 to 18, 2010 totaled 9,788 AF. The breakdown of the total volume was:

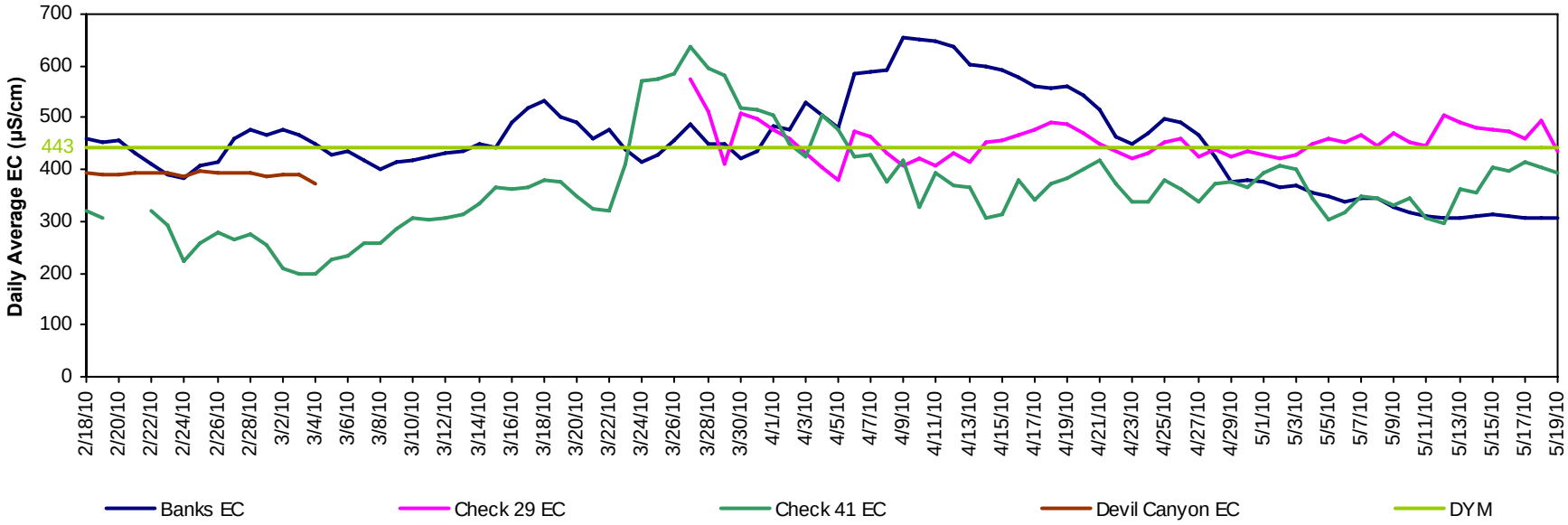
- Arvin Edison Water Storage District = 1,648 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 3,168 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 4,919 AF
- Semitropic (2&3) Water Storage District = 53 AF
- Wheeler Ridge Maricopa Water Storage District = 0 AF

As of May 18, 2010, no data were available for Devil Canyon and Cordelia PP due to malfunctioning instruments.

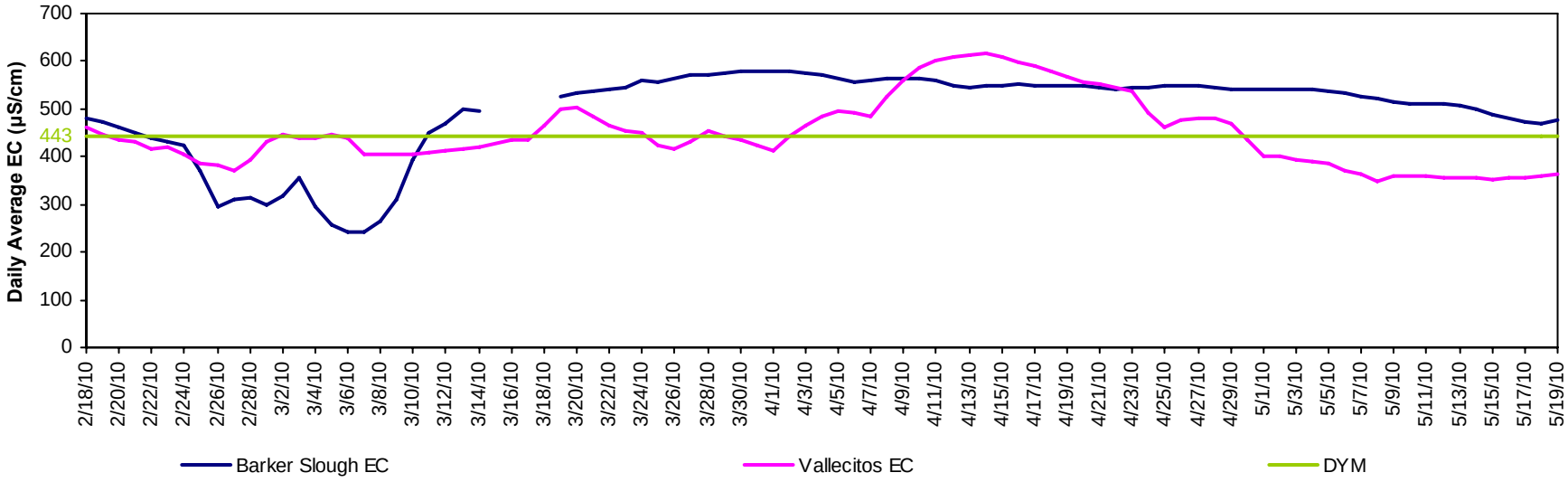
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

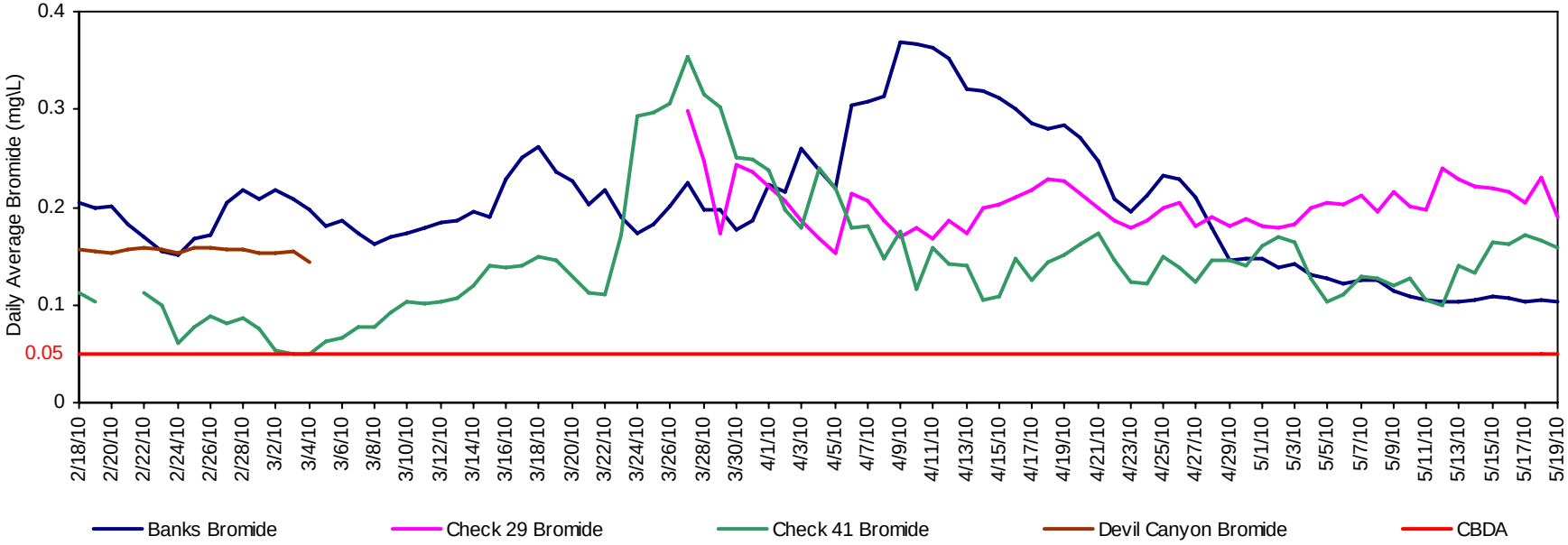
California Aqueduct - Electrical Conductivity



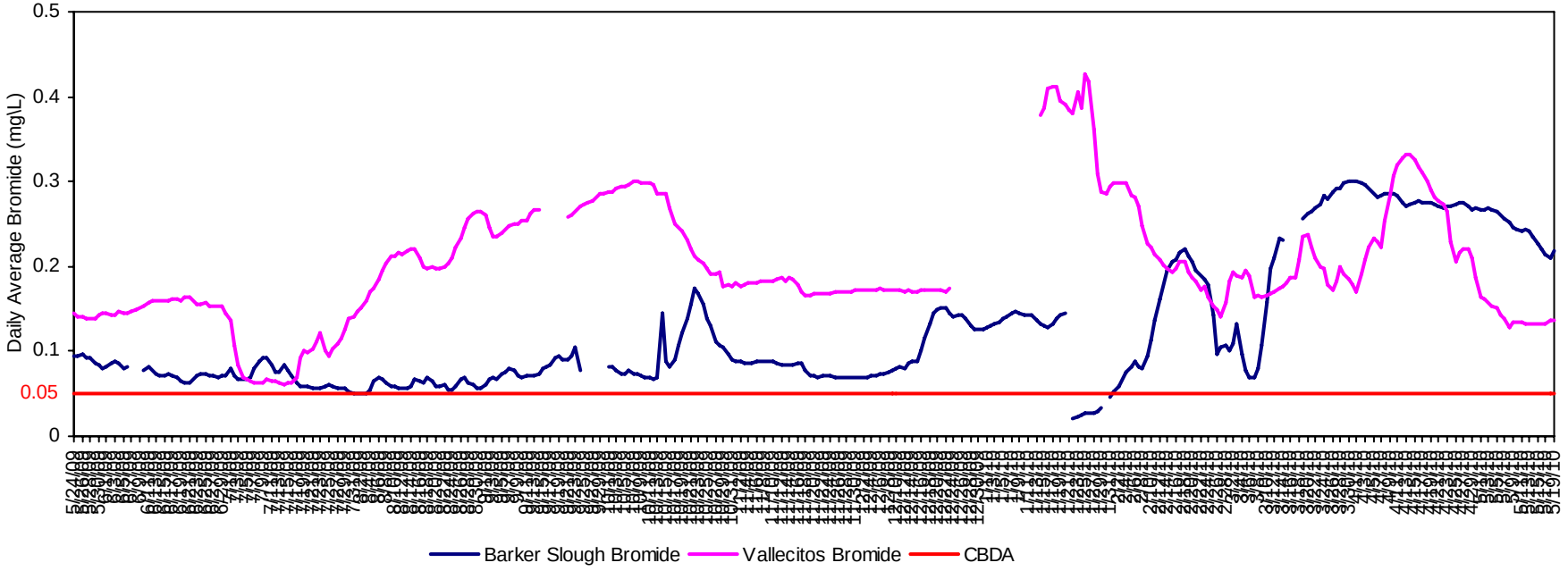
North and South Bay Aqueduct - Electrical Conductivity



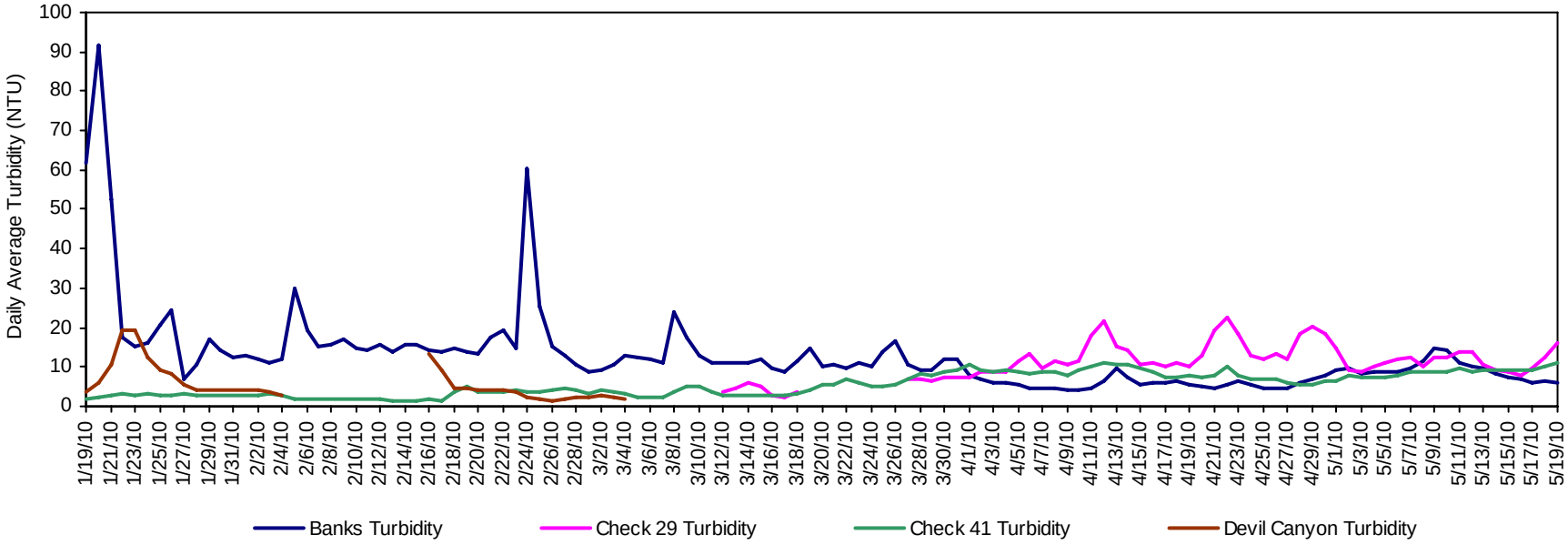
California Aqueduct - Calculated Bromide



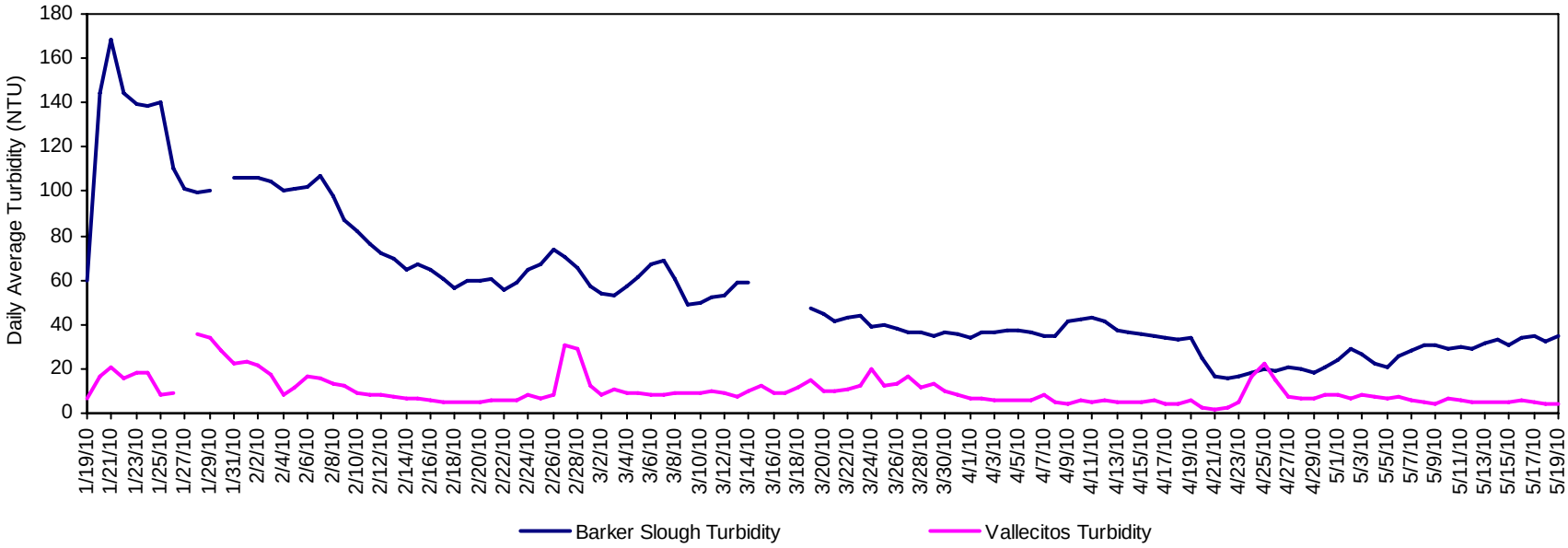
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon